

WO 00/28032

PCT/US99/26742

## SEQUENCE LISTING

&lt;110&gt; INCYTE PHARMACEUTICALS, INC.

TANG, Y. Tom

CORLEY, Neil C.

GUEGLER, Karl J.

YUE, Henry

BAUGHN, Mariah R.

LAL, Preeti

HILLMAN, Jennifer L.

BANDMAN, Olga

AZIMZAI, Yalda

AU-YOUNG, Janice

&lt;120&gt; HUMAN CELL SURFACE RECEPTOR PROTEINS

&lt;130&gt; PF-0636 PCT

&lt;140&gt; To Be Assigned

&lt;141&gt; Herewith

&lt;150&gt; 09/121,280; unassigned; 09/206,647; unassigned; 60/123,404

&lt;151&gt; 1998-11-12; 1998-11-12; 1998-12-07; 1998-12-07; 1999-03-08

&lt;160&gt; 26

&lt;170&gt; PERL Program

&lt;210&gt; 1

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2355971CD1

&lt;400&gt; 1

Met	Gly	Pro	Arg	Arg	Leu	Leu	Leu	Val	Ala	Ala	Cys	Phe	Ser	Leu	
1				5					10					15	
Cys	Gly	Pro	Leu	Leu	Ser	Ala	Arg	Thr	Arg	Ala	Arg	Arg	Pro	Gly	
				20					25					30	
Glu	Arg	Cys	Thr	Gly	Met	Gly	Cys	Ala	Gly	Gly	Gly	Thr	Pro	Arg	
				35					40					45	
Gly	Asp	Cys	Gly	Gly	His	Cys	Cys	Asp	Phe	Ser	Ser	Pro	Leu	Pro	
				50					55					60	
Gln	Phe	Pro	Pro	Lys	Ala	Lys	Leu	Ala	Phe	Gly	Leu	Arg	Ser	Gly	
				65					70					75	
Val	Phe	Ser	Ser	His	Val										
				80											

&lt;210&gt; 2

&lt;211&gt; 140

&lt;212&gt; PRT



Pro	Gly	Pro	Asn	Arg	Glu	Phe	Ser	Ile	Thr	Val	Val	Gln	Lys	Ala
				125					130					135
Asp	Ser	Gly	His	Tyr	His	Cys	Ser	Gly	Ile	Phe	Gln	Ser	Pro	Gly
				140					145					150
Pro	Gly	Ile	Pro	Glu	Thr	Ala	Ser	Val	Val	Ala	Ile	Thr	Val	Gln
				155					160					165
Glu	Leu	Phe	Pro	Ala	Pro	Ile	Leu	Arg	Ala	Leu	Pro	Ser	Ala	Glu
				170					175					180
Pro	Gln	Ala	Gly	Gly	Pro	Met	Thr	Leu	Ser	Cys	Gln	Thr	Lys	Leu
				185					190					195
Pro	Leu	Gln	Arg	Ser	Ala	Ala	Arg	Leu	Leu	Phe	Ser	Phe	Tyr	Lys
				200					205					210
Asp	Gly	Arg	Ile	Val	Gln	Ser	Arg	Gly	Leu	Ser	Ser	Glu	Phe	Gln
				215					220					225
Ile	Pro	Thr	Ala	Ser	Glu	Asp	His	Ser	Gly	Ser	Tyr	Trp	Cys	Glu
				230					235					240
Ala	Ala	Thr	Glu	Asp	Asn	Gln	Val	Trp	Lys	Gln	Ser	Pro	Gln	Leu
				245					250					255
Glu	Ile	Arg	Val	Gln	Gly	Ala	Ser	Ser	Ser	Ala	Ala	Pro	Pro	Thr
				260					265					270
Leu	Asn	Pro	Ala	Pro	Gln	Lys	Ser	Ala	Ala	Pro	Gly	Thr	Ala	Pro
				275					280					285
Glu	Glu	Ala	Pro	Gly	Pro	Leu	Pro	Pro	Pro	Pro	Thr	Pro	Ser	Ser
				290					295					300
Glu	Asp	Pro	Gly	Phe	Ser	Ser	Pro	Leu	Gly	Met	Pro	Asp	Pro	His
				305					310					315
Leu	Tyr	His	Gln	Met	Gly	Leu	Leu	Leu	Lys	His	Met	Gln	Asp	Val
				320					325					330
Arg	Val	Leu	Leu	Gly	His	Leu	Leu	Met	Glu	Leu	Arg	Glu	Leu	Ser
				335					340					345
Gly	His	Arg	Lys	Pro	Gly	Thr	Thr	Lys	Ala	Thr	Ala	Glu		
				350					355					

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<210> 4
<211> 201
<212> PRT
<213> Homo sapiens
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<220>  
<221> misc_feature  
<223> Incyte ID No: 1368760CD1
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Phe	Phe	Leu	Val	Leu	Gly	Leu	Leu	Gly	His	Ser	His	Gly	Gly	Phe	
				20					25					30	
Pro	Asn	Thr	Ile	Ser	Ile	Gly	Gly	Leu	Phe	Met	Arg	Asn	Thr	Val	
				35					40					45	
Gln	Glu	His	Ser	Ala	Phe	Arg	Phe	Ala	Val	Gln	Leu	Tyr	Asn	Thr	
				50					55					60	
Asn	Gln	Asn	Thr	Thr	Glu	Lys	Pro	Phe	His	Leu	Asn	Tyr	His	Val	
				65					70					75	
Asp	Leu	Leu	Asp	Ser	Ser	Asn	Ser	Phe	Ser	Val	Thr	Asn	Ala	Phe	

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	80		85		90
Cys Ser Gln Phe	Ser Arg Gly Val Tyr	Ala Ile Phe Gly Phe Tyr			
	95	100			105
Asp Gln Met Ser	Met Asn Thr Leu Thr	Ser Phe Cys Gly Ala Leu			
	110	115			120
His Thr Ser Phe	Val Thr Pro Ser Phe	Pro Thr Asp Ala Asp Val			
	125	130			135
Gln Phe Val Ile	Gln Met Arg Pro Ala	Leu Lys Gly Ala Ile Leu			
	140	145			150
Ser Leu Leu Gly	His Tyr Lys Trp Glu	Lys Phe Val Tyr Leu Tyr			
	155	160			165
Asp Thr Glu Arg	Gly Lys Lys Arg His	Leu Leu Cys Ser Leu Asp			
	170	175			180
Ile His Val Ile	Val Phe Lys Leu Pro	Gln Leu Met Cys Pro Leu			
	185	190			195
Leu Pro Ile Asn	Lys Ile				
	200				

&lt;210&gt; 5

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1670669CD1

&lt;400&gt; 5

Met Asp His Leu Gly	Ala Ser Leu Trp	Pro Gln Val Gly Ser Leu
1	5	10
Cys Leu Leu Leu Ala	Gly Ala Ala Trp	Ala Pro Pro Pro Asn Leu
	20	25
Pro Asp Pro Lys Phe	Glu Ser Lys Ala	Ala Leu Leu Ala Ala Arg
	35	40
Gly Pro Glu Glu Leu	Leu Cys Phe Thr	Glu Arg Val Gly Gly Leu
	50	55
Gly Met Ser His Gly	Lys Leu Cys Arg	Leu His Gln Ala Pro Thr
	65	70
Ala Arg Gly Gly Gly	Ala Leu Leu Val	Cys Ala Ala Tyr Arg Arg
	80	85
His Val Glu Leu Arg	Ala Pro Arg Val	Gly Arg His Ser Ser Leu
	95	100
Arg Arg Ser Ala Ile	Ser Pro Cys His	Pro His Gln
	110	115

&lt;210&gt; 6

&lt;211&gt; 455

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2851578CD1

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&lt;400&gt; 6

Met	Glu	Gly	Gly	Arg	Ala	Ala	Gly	Phe	Pro	Leu	Ala	Cys	Lys	Gln	1
				5					10					15	
Glu	His	Arg	Val	Phe	Leu	Ser	Gly	Cys	Glu	Asn	Ala	Asp	Glu	Asn	20
				20					25					30	
Pro	Arg	Met	Leu	Cys	His	Arg	Gly	Gly	Gln	Leu	Ile	Val	Pro	Ile	35
				35					40					45	
Ile	Pro	Leu	Cys	Pro	Glu	His	Ser	Cys	Arg	Gly	Arg	Arg	Leu	Gln	50
				50					55					60	
Asn	Leu	Leu	Ser	Gly	Pro	Trp	Pro	Lys	Gln	Pro	Met	Glu	Leu	His	65
				65					70					75	
Asn	Leu	Ser	Ser	Pro	Ser	Pro	Ser	Leu	Ser	Ser	Ser	Val	Leu	Pro	80
				80					85					90	
Pro	Ser	Phe	Ser	Pro	Ser	Pro	Ser	Ser	Ala	Pro	Ser	Ala	Phe	Thr	95
				95					100					105	
Thr	Val	Gly	Gly	Ser	Ser	Gly	Gly	Pro	Cys	His	Pro	Thr	Ser	Ser	110
				110					115					120	
Ser	Leu	Val	Ser	Ala	Phe	Leu	Ala	Pro	Ile	Leu	Ala	Leu	Glu	Phe	125
				125					130					135	
Val	Leu	Gly	Leu	Val	Gly	Asn	Ser	Leu	Ala	Leu	Phe	Ile	Phe	Cys	140
				140					145					150	
Ile	His	Thr	Arg	Pro	Trp	Thr	Ser	Asn	Thr	Val	Phe	Leu	Val	Ser	155
				155					160					165	
Leu	Val	Ala	Ala	Asp	Phe	Leu	Leu	Ile	Ser	Asn	Leu	Pro	Leu	Arg	170
				170					175					180	
Val	Asp	Tyr	Tyr	Leu	Leu	His	Glu	Thr	Trp	Arg	Phe	Gly	Ala	Ala	185
				185					190					195	
Ala	Cys	Lys	Val	Asn	Leu	Phe	Met	Leu	Ser	Thr	Asn	Arg	Thr	Ala	200
				200					205					210	
Ser	Val	Val	Phe	Leu	Thr	Ala	Ile	Ala	Leu	Asn	Arg	Tyr	Leu	Lys	215
				215					220					225	
Val	Val	Gln	Pro	His	His	Val	Leu	Ser	Arg	Ala	Ser	Val	Gly	Ala	230
				230					235					240	
Ala	Ala	Arg	Val	Ala	Gly	Gly	Leu	Trp	Val	Gly	Ile	Leu	Leu	Leu	245
				245					250					255	
Asn	Gly	His	Leu	Leu	Leu	Ser	Thr	Phe	Ser	Gly	Pro	Ser	Cys	Leu	260
				260					265					270	
Ser	Tyr	Arg	Val	Gly	Thr	Lys	Pro	Ser	Ala	Ser	Leu	Arg	Trp	His	275
				275					280					285	
Gln	Ala	Leu	Tyr	Leu	Leu	Glu	Phe	Phe	Leu	Pro	Leu	Ala	Leu	Ile	290
				290					295					300	
Leu	Phe	Ala	Ile	Val	Ser	Ile	Gly	Leu	Thr	Ile	Arg	Asn	Arg	Gly	305
				305					310					315	
Leu	Gly	Gly	Gln	Ala	Gly	Pro	Gln	Arg	Ala	Met	Arg	Val	Leu	Ala	320
				320					325					330	
Met	Val	Val	Ala	Val	Tyr	Thr	Ile	Cys	Phe	Leu	Pro	Ser	Ile	Ile	335
				335					340					345	
Phe	Gly	Met	Ala	Ser	Met	Val	Ala	Phe	Trp	Leu	Ser	Ala	Cys	Arg	350
				350					355					360	
Ser	Leu	Asp	Leu	Cys	Thr	Gln	Leu	Phe	His	Gly	Ser	Leu	Ala	Phe	365
				365					370					375	
Thr	Tyr	Leu	Asn	Ser	Val	Leu	Asp	Pro	Val	Leu	Tyr	Cys	Phe	Ser	380
				380					385					390	
Ser	Pro	Asn	Phe	Leu	His	Gln	Ser	Arg	Ala	Leu	Leu	Gly	Leu	Thr	395
				395					400					405	



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Ile Asn Arg Phe Met Lys Lys Leu Met Phe Pro Val Gly Tyr Gly
      260      265
Val Pro Ala Val Thr Val Ala Ile Ser Ala Ala Ser Arg Pro His
      275      280
Leu Tyr Gly Thr Pro Ser Arg Cys Trp Leu Gln Pro Glu Lys Gly
      290      295
Phe Ile Trp Gly Phe Leu Gly Pro Val Cys Ala Ile Phe Ser Val
      305      310
Asn Leu Val Leu Phe Leu Val Thr Leu Trp Ile Leu Lys Asn Arg
      320      325
Leu Ser Ser Leu Asn Ser Glu Val Ser Thr Leu Arg Asn Thr Arg
      335      340
Met Leu Ala Phe Lys Ala Thr Ala Gln Leu Phe Ile Leu Gly Cys
      350      355
Thr Trp Cys Leu Gly Ile Leu Gln Val Gly Pro Ala Ala Arg Val
      365      370
Met Ala Tyr Leu Phe Thr Ile Ile Asn Ser Leu Gln Gly Val Phe
      380      385
Ile Phe Leu Val Tyr Cys Leu Leu Ser Gln Gln Val Arg Glu Gln
      395      400
Tyr Gly Lys Trp Ser Lys Gly Ile Arg Lys Leu Lys Thr Glu Ser
      410      415
Glu Met His Thr Leu Ser Ser Ser Ala Lys Ala Asp Thr Ser Lys
      425      430
Pro Ser Thr Val Arg Ser Arg Ile Ala Pro Glu His Phe Thr Asn
      440      445
Arg Pro Thr

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&lt;210&gt; 8

&lt;211&gt; 442

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 312256CD1

&lt;400&gt; 8

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Met Ala Ser Val Val Leu Pro Ser Gly Ser Gln Cys Ala Ala Ala
  1      5      10      15
Ala Ala Ala Ala Ala Pro Pro Gly Leu Arg Leu Arg Leu Leu Leu
      20      25      30
Leu Leu Phe Ser Ala Ala Ala Leu Ile Pro Thr Gly Asp Gly Gln
      35      40      45
Asn Leu Phe Thr Lys Asp Val Thr Val Ile Glu Gly Glu Val Ala
      50      55      60
Thr Ile Ser Cys Gln Val Asn Lys Ser Asp Asp Ser Val Ile Gln
      65      70      75
Leu Leu Asn Pro Asn Arg Gln Thr Ile Tyr Phe Arg Asp Phe Arg
      80      85      90
Pro Leu Lys Asp Ser Arg Phe Gln Leu Leu Asn Phe Ser Ser Ser
      95      100      105
Glu Leu Lys Val Ser Leu Thr Asn Val Ser Ile Ser Asp Glu Gly

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Arg Tyr Phe Cys Gln Leu Tyr Thr Asp	110	Pro Pro Gln Glu Ser Tyr	115	120
Thr Thr Ile Thr Val Leu Val Pro Pro	125	Arg Asn Leu Met Ile Asp	130	135
Ile Gln Lys Asp Thr Ala Val Glu Gly	140	Glu Glu Ile Glu Val Asn	145	150
Cys Thr Ala Met Ala Ser Lys Pro Ala	155	Thr Thr Ile Arg Trp Phe	160	165
Lys Gly Asn Thr Glu Leu Lys Gly Lys	170	Ser Glu Val Glu Glu Trp	175	180
Ser Asp Met Tyr Thr Val Thr Ser Gln	185	Leu Met Leu Lys Val His	190	195
Lys Glu Asp Asp Gly Val Pro Val Ile	200	Cys Gln Val Glu His Pro	205	210
Ala Val Thr Gly Asn Leu Gln Thr Gln	215	Arg Tyr Leu Glu Val Gln	220	225
Tyr Lys Pro Gln Val His Ile Gln Met	230	Thr Tyr Pro Leu Gln Gly	235	240
Leu Thr Arg Glu Gly Asp Ala Leu Glu	245	Leu Thr Cys Glu Ala Ile	250	255
Gly Lys Pro Gln Pro Val Met Val Thr	260	Trp Val Arg Val Asp Asp	265	270
Glu Met Pro Gln His Ala Val Leu Ser	275	Gly Pro Asn Leu Phe Ile	280	285
Asn Asn Leu Asn Lys Thr Asp Asn Gly	290	Thr Tyr Arg Cys Glu Ala	295	300
Ser Asn Ile Val Gly Lys Ala His Ser	305	Asp Tyr Met Leu Tyr Val	310	315
Tyr Asp Pro Pro Thr Thr Ile Pro Pro	320	Pro Thr Thr Thr Thr Thr	325	330
Thr Thr Thr Thr Thr Thr Thr Thr	335	Leu Thr Ile Ile Thr Asp	340	345
Ser Arg Ala Gly Glu Gly Ser Ile Arg	350	Ala Val Asp His Ala	355	360
Val Ile Gly Gly Val Val Ala Val Val	365	Val Phe Ala Met Leu Cys	370	375
Leu Leu Ile Ile Leu Gly Arg Tyr Phe	380	Ala Arg His Lys Gly Thr	385	390
Tyr Phe Thr His Glu Ala Lys Gly Ala	395	Asp Asp Ala Ala Asp Ala	400	405
Asp Thr Ala Ile Ile Asn Ala Glu Gly	410	Gly Gln Asn Asn Ser Glu	415	420
Glu Lys Lys Glu Tyr Phe Ile	425		430	435
	440			

&lt;210&gt; 9

&lt;211&gt; 382

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1615704CD1



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&lt;400&gt; 9

Met Asp Phe Leu Val Leu Phe Leu Phe Tyr Leu Ala Ser Val Leu	15
1 5 10	
Met Gly Leu Val Leu Ile Cys Val Cys Ser Lys Thr His Ser Leu	30
20 25	
Lys Gly Leu Ala Arg Gly Gly Ala Gln Ile Phe Ser Cys Ile Ile	45
35 40	
Pro Glu Cys Leu Gln Arg Ala Val His Gly Leu Leu His Tyr Leu	60
50 55	
Phe His Thr Arg Asn His Thr Phe Ile Val Leu His Leu Val Leu	75
65 70	
Gln Gly Met Val Tyr Thr Glu Tyr Thr Trp Glu Val Phe Gly Tyr	90
80 85	
Cys Gln Glu Leu Glu Leu Ser Leu His Tyr Leu Leu Leu Pro Tyr	105
95 100	
Leu Leu Leu Gly Val Asn Leu Phe Phe Phe Thr Leu Thr Cys Gly	120
110 115	
Thr Asn Pro Gly Ile Ile Thr Lys Ala Asn Glu Leu Leu Phe Leu	135
125 130	
His Val Tyr Glu Phe Asp Glu Val Met Phe Pro Lys Asn Val Arg	150
140 145	
Cys Ser Thr Cys Asp Leu Arg Lys Pro Ala Arg Ser Lys His Cys	165
155 160	
Ser Glu Cys Gly Ser Arg Asp Ser Ser Gly Thr Ser Asn Ser Thr	180
170 175	
Cys Val Gly Phe Val Cys Glu Gly Met Phe Pro Glu Ser Glu Ser	195
185 190	
Arg Ala Ser Ser Pro Pro Asp Met Val Cys Val Thr Trp Cys Val	210
200 205	
His Arg Phe Asp His His Cys Val Trp Val Asn Asn Cys Ile Gly	225
215 220	
Ala Trp Asn Ile Arg Tyr Phe Leu Ile Tyr Val Leu Thr Leu Thr	240
230 235	
Ala Ser Ala Ala Thr Val Ala Ile Val Ser Thr Thr Phe Leu Val	255
245 250	
His Leu Val Val Met Ser Asp Leu Tyr Gln Glu Thr Tyr Ile Asp	270
260 265	
Asp Leu Gly His Leu His Val Met Asp Thr Val Phe Leu Ile Gln	285
275 280	
Tyr Leu Phe Leu Thr Phe Pro Arg Ile Val Phe Met Leu Gly Phe	300
290 295	
Val Val Val Leu Ser Phe Leu Leu Gly Gly Tyr Leu Leu Phe Val	315
305 310	
Leu Tyr Leu Ala Thr Asn Gln Thr Thr Asn Glu Trp Tyr Arg	330
320 325	
Gly Asp Trp Ala Trp Cys Gln Arg Cys Pro Leu Val Ala Trp Pro	345
335 340	
Pro Ser Ala Glu Pro Gln Val His Arg Asn Ile His Ser His Gly	360
350 355	
Leu Arg Ser Asn Leu Gln Glu Ile Phe Leu Pro Ala Phe Pro Cys	375
365 370	
His Glu Arg Lys Lys Gln Glu	380

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<210> 10
<211> 257
<212> PRT
<213> Homo sapiens
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<220>  
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<223> Incyte ID No: 1659465CD1
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Met	Ala	Ser	Lys	Ile	Gly	Ser	Arg	Arg	Trp	Met	Leu	Gln	Leu	Ile
1				5					10					15
Met	Gln	Leu	Gly	Ser	Val	Leu	Leu	Thr	Arg	Cys	Pro	Phe	Trp	Gly
				20					25					30
Cys	Phe	Ser	Gln	Leu	Met	Leu	Tyr	Ala	Glu	Arg	Ala	Glu	Ala	Arg
				35					40					45
Arg	Lys	Pro	Asp	Ile	Pro	Val	Pro	Tyr	Leu	Tyr	Phe	Asp	Met	Gly
				50					55					60
Ala	Ala	Val	Leu	Cys	Ala	Ser	Phe	Met	Ser	Phe	Gly	Val	Lys	Arg
				65					70					75
Arg	Trp	Phe	Ala	Leu	Gly	Ala	Ala	Leu	Gln	Leu	Ala	Ile	Ser	Thr
				80					85					90
Tyr	Ala	Ala	Tyr	Ile	Gly	Gly	Tyr	Val	His	Tyr	Gly	Asp	Trp	Leu
				95					100					105
Lys	Val	Arg	Met	Tyr	Ser	Arg	Thr	Val	Ala	Ile	Ile	Gly	Gly	Phe
				110					115					120
Leu	Val	Leu	Ala	Ser	Gly	Ala	Gly	Glu	Leu	Tyr	Arg	Arg	Lys	Pro
				125					130					135
Arg	Ser	Arg	Ser	Leu	Gln	Ser	Thr	Gly	Gln	Val	Phe	Leu	Gly	Ile
				140					145					150
Tyr	Leu	Ile	Cys	Val	Ala	Tyr	Ser	Leu	Gln	His	Ser	Lys	Glu	Asp
				155					160					165
Arg	Leu	Ala	Tyr	Leu	Asn	His	Leu	Pro	Gly	Gly	Glu	Leu	Met	Ile
				170					175					180
Gln	Leu	Phe	Phe	Val	Leu	Tyr	Gly	Ile	Leu	Ala	Leu	Ala	Phe	Leu
				185					190					195
Ser	Gly	Tyr	Tyr	Val	Thr	Leu	Ala	Ala	Gln	Ile	Leu	Ala	Val	Leu
				200					205					210
Leu	Pro	Pro	Val	Met	Leu	Leu	Ile	Asp	Gly	Asn	Val	Ala	Tyr	Trp
				215					220					225
His	Asn	Thr	Arg	Arg	Val	Glu	Phe	Trp	Asn	Gln	Met	Lys	Leu	Leu
				230					235					240
Gly	Glu	Ser	Val	Gly	Ile	Phe	Gly	Thr	Ala	Val	Ile	Leu	Ala	Thr
				245					250					255

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<210> 11
<211> 697
<212> PRT
<213> Homo sapiens
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<220>
<221> misc_feature
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&lt;223&gt; Incyte ID No: 2120743CD1

&lt;400&gt; 11

Met Cys Lys Ser Leu Arg Tyr Cys Phe Ser His Cys Leu Tyr Leu	10	15
1	5	
Ala Met Thr Arg Leu Glu Glu Val Asn Arg Glu Val Asn Met His	20	30
Ser Ser Val Arg Tyr Leu Gly Tyr Leu Ala Arg Ile Asn Leu Leu	35	45
Val Ala Ile Cys Leu Gly Leu Tyr Val Arg Trp Glu Lys Thr Ala	50	60
Asn Ser Leu Ile Leu Val Ile Phe Ile Leu Gly Leu Phe Val Leu	65	75
Gly Ile Ala Ser Ile Leu Tyr Tyr Tyr Phe Ser Met Glu Ala Ala	80	90
Ser Leu Ser Leu Ser Asn Leu Trp Phe Gly Phe Leu Leu Gly Leu	95	105
Leu Cys Phe Leu Asp Asn Ser Ser Phe Lys Asn Asp Val Lys Glu	110	120
Glu Ser Thr Lys Tyr Leu Leu Leu Thr Ser Ile Val Leu Arg Ile	125	135
Leu Cys Ser Leu Val Glu Arg Ile Ser Gly Tyr Val Arg His Arg	140	150
Pro Thr Leu Leu Thr Thr Val Glu Phe Leu Glu Leu Val Gly Phe	155	165
Ala Ile Ala Ser Thr Thr Met Leu Val Glu Lys Ser Leu Ser Val	170	180
Ile Leu Leu Val Val Ala Leu Ala Met Leu Ile Ile Asp Leu Arg	185	195
Met Lys Ser Phe Leu Ala Ile Pro Asn Leu Val Ile Phe Ala Val	200	210
Leu Leu Phe Phe Ser Ser Leu Glu Thr Pro Lys Asn Pro Ile Ala	215	225
Phe Ala Cys Phe Phe Ile Cys Leu Ile Thr Asp Pro Phe Leu Asp	230	240
Ile Tyr Phe Ser Gly Leu Ser Val Thr Glu Arg Trp Lys Pro Phe	245	255
Leu Tyr Arg Gly Arg Ile Cys Arg Arg Leu Ser Val Val Phe Ala	260	270
Gly Met Ile Glu Leu Thr Phe Phe Ile Leu Ser Ala Phe Lys Leu	275	285
Arg Asp Thr His Leu Trp Tyr Phe Val Ile Pro Gly Phe Ser Ile	290	300
Phe Gly Ile Phe Trp Met Ile Cys His Ile Ile Phe Leu Leu Thr	305	315
Leu Trp Gly Phe His Thr Lys Leu Asn Asp Cys His Lys Val Tyr	320	330
Phe Thr His Arg Thr Asp Tyr Asn Ser Leu Asp Arg Ile Met Ala	335	345
Ser Lys Gly Met Arg His Phe Cys Leu Ile Ser Glu Gln Leu Val	350	360
Phe Phe Ser Leu Leu Ala Thr Ala Ile Leu Gly Ala Val Ser Trp	365	375
Gln Pro Thr Asn Gly Ile Phe Leu Ser Met Phe Leu Ile Val Leu	380	390

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Pro Leu Glu Ser Met Ala His Gly Leu Phe His Glu Leu Gly Asn  
 395 400 405  
 Cys Leu Gly Gly Thr Ser Val Gly Tyr Ala Ile Val Ile Pro Thr  
 410 415 420  
 Asn Phe Cys Ser Pro Asp Gly Gln Pro Thr Leu Leu Pro Pro Glu  
 425 430 435  
 His Val Gln Glu Leu Asn Leu Arg Ser Thr Gly Met Leu Asn Ala  
 440 445 450  
 Ile Gln Arg Phe Phe Ala Tyr His Met Ile Glu Thr Tyr Gly Cys  
 455 460 465  
 Asp Tyr Ser Thr Ser Gly Leu Ser Phe Asp Thr Leu His Ser Lys  
 470 475 480  
 Leu Lys Ala Phe Leu Glu Leu Arg Thr Val Asp Gly Pro Arg His  
 485 490 495  
 Asp Thr Tyr Ile Leu Tyr Tyr Ser Gly His Thr His Gly Thr Gly  
 500 505 510  
 Glu Trp Ala Leu Ala Gly Gly Asp Thr Leu Arg Leu Asp Thr Leu  
 515 520 525  
 Ile Glu Trp Trp Arg Glu Lys Asn Gly Ser Phe Cys Ser Arg Leu  
 530 535 540  
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